

(11) Publication number:

03091239 A

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: 01227351

(22) Application date: 04.09.89

(72) Inventor: KOBAYASHI TAKASHI

(71) Applicant: HITACHI LTD

HIRAIWA ATSUSHI

IIJIMA SHINPEI

(51) Intl. Cl.: H01L 21/28 H01L 21/205 H01L 21/285

(30) Priority:

(43) Date of application 16.04.91 publication:

(84) Designated contracting

states:

:

(74) Representative:

(54) FORMATION OF THIN FILM

(57) Abstract:

PURPOSE: To contrive the reduction of the resistance of wirings by using a mixed gas as a material gas which includes disilane or trisilane and arsine.

CONSTITUTION: For a material gas, a mixed gas including Si2H6 or Si3H8 and AsH3 is used and an Si film is formed under a film forming temperature of 450°C-550°C. After

03091239 A

This is a polycrystalline silicon film which includes crystal particles whose diameter is 10 times its film thickness polycrystalline film by heat treatment. film can be formed that realizes high productivity and conductivity and allows little impurity diffusion into a substrate Si. unevenness of 5mm or less, and also includes arsenic. As a result, such Si or larger and whose surface has that, the film is made into a

COPYRIGHT: (C)1991, JPO& Japio

5/10/01